

Serial No. 09/987,100
Amdt. dated **September 10, 2004**
Reply to Office Action dated June 16, 2004

Docket No. K-0337

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A short message transmitting method in a communication system comprising ~~the steps of~~:
 checking ~~the~~ a number of characters of an input text message;
 inserting connection information representing a boundary of the text message and identification information for informing that the text message is divided whenever the checked number of characters exceeds a predetermined number;
 dividing the input text message according to the inserted connection information; and
 transmitting the divided text messages,
 wherein for a first divided text message among the divided text messages, the connection information is inserted into only an end portion of the first divided text message.

2. (Currently Amended) The method as claimed in claim 1, wherein ~~at the connection information insertion step~~, the connection information comprises first

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connection information for informing that there is the a respective divided text message connected [[in]] to a rear of the connection information, and second connection information for informing there is the respective divided text message connected [[in]] to a front of the connection information.

3. (Currently Amended) The method as claimed in claim 1, wherein ~~at the identification information insertion step~~, the identification information includes information representing a division order of the input text message.

4. (Original) The method as claimed in claim 2, wherein the first connection information is inserted into a start portion of the respective divided text message, and the second connection information is inserted into an end portion of the respective divided text message.

5. (Canceled).

6. (Currently Amended) ~~The method as claimed in claim 2, A short message transmitting method in a communication system comprising:~~
checking a number of characters of an input text message;

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inserting connection information representing a boundary of the text message
and identification information for informing that the text message is divided whenever the
checked number of characters exceeds a predetermined number;

dividing the input text message according to the inserted connection
information; and

transmitting divided text messages,

wherein ~~in case of the lastly~~ for a last divided text message among the divided text messages, the connection information is inserted into only a start portion of the ~~lastly~~ last divided text message.

7. (Original) The method as claimed in claim 1, wherein the divided text messages are transmitted through a paging channel.

8. (Currently Amended) The method as claimed in claim 1, wherein ~~the~~ transmitting step further includes the steps of the divided text messages comprises:
checking ~~the~~ a divided order of ~~the~~ the respective divided text messages; and
successively transmitting the respective divided text messages according to the checked divided order.

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9. (Currently Amended) The method as claimed in claim 8, wherein ~~the~~ information on the division order of the respective divided text messages is obtained by checking the inserted identification information.

10. (Currently Amended) The method as claimed in claim 1, further comprising ~~the steps of:~~

after ~~the transmitting step~~ the divided text messages, checking whether ~~the~~ respective divided text messages are normally transmitted; and if it is checked that there is any text message not normally transmitted, re-transmitting the corresponding respective text message.

11. (Currently Amended) A short message receiving method in a communication system comprising ~~the steps of:~~

receiving text messages transmitted through a radio channel;
checking whether the received text messages are divided text messages ~~divided and transmitted by a transmitting end~~ by analyzing identification and connection information of the received text messages;
if it is checked that the received text messages are ~~the divided and transmitted~~ text messages, storing the received text messages in a memory; and

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displaying the text messages stored in the memory,
wherein no connection information at a start of a respective divided text message indicates the respective divided text message is a first divided text message or no connection information at an end of the respective divided text message indicates the respective text message is a last divided text message.

12. (Currently Amended) The method as claimed in claim 11, wherein ~~at the display step, displaying the text messages comprises:~~
~~checking the identification information of the respective stored text messages is checked; and the~~
~~successively displaying respective stored text messages are successively displayed according to division order information of the respective stored text messages that is included in the identification information.~~

13. (Currently Amended) A short message transmitting/receiving method in a communication system comprising ~~the steps of:~~
a transmitting end producing a message to be transmitted;
~~in case that the message to be transmitted exceeds a predetermined length, a~~
receiving end inserting ~~for a predetermined unit of the message connection information~~

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~~representing a boundary of the unit and identification information representing that the message is divided and transmitted and inserting connection information representing a boundary of the divided message, when the message to be transmitted exceeds a predetermined length;~~

segmenting the message according to the inserted connection and identification information;

numbering and transmitting the divided messages to the transmitting end the divided unit messages; and

the receiving end assembling the transmitted unit divided messages into a message according to the connection and identification information of the unit messages and displaying the assembled message,

wherein a respective divided message that does not include inserted connection information in a start position and an end position of the respective divided message is a first or last divided message.

14. (Currently Amended) The method as claimed in claim 13, wherein assembling the message ~~assembling step~~ comprises ~~the steps of:~~

temporarily storing the transmitted unit messages;

assembling the unit messages according to a numbering order of the stored

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unit messages and the connection information; and
displaying the assembled message.

15. (Currently Amended) The method as claimed in claim 13, wherein the ~~unit divided~~ messages are transmitted through a paging channel.

16. (Canceled).

17. (Currently Amended) The method as claimed in claim [[16]] 13, wherein the connection information [[is]] inserted into [[an]] only the end position of the ~~firstly produced unit divided~~ message indicates the divided message is a first divided message.

18. (Currently Amended) The method as claimed in claim [[16]] 13, wherein the connection information [[is]] inserted into [[a]] only the start position of the ~~lastly produced unit divided~~ message indicates the divided message is a last divided message.

19. (New) A short message communication method comprising:
segmenting a message that is longer than a predetermined length into a plurality of divided messages; and

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inserting an end connection code at an end of a respective divided message to indicate an end of the respective divided message and that another divided message follows the respective divided message.

20. (New) The method as claimed in claim 19, further comprising:
inserting a start connection code at a start of a respective divided message only for a last divided message.
21. (New) The method as claimed in claim 19, further comprising:
inserting a start connection code at a start of a respective divided message only for divided messages that occur after a first divided message.
22. (New) The method as claimed in claim 19, wherein inserting the end connection code inserts an end connection code only for a first divided message.